

**NOMENCLATRURAL CHANGES IN THE ERIOCOCCIDAE  
(HOMOPTERA: COCCOIDEA)**

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*Abstract.*—A catalog of the eriococcid scale insects of the world is nearly complete and will soon be placed on the World Wide Web. Before this is done, new nomenclatural changes need to be validated in print. Therefore, this publication includes 191 new combinations, four replacement names, and one new generic synonym.

*Key Words:* Felt scales, Coccoidea, Eriococcidae, catalog, new combinations, replacement names

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We currently are completing a systematic database and manuscript on the Eriococcidae of the World. It is part of a larger project called ScaleNet to develop a systematic database of the Coccoidea of the World. ScaleNet is funded by the United States-Israel, Binational Agricultural Research and Development Fund (project No. IS-2423-94) and is being undertaken jointly with Yair Ben-Dov, Department of Entomology, Agricultural Research Organization, The Volcani Center, Bet Dagan, Israel. The database resides in BASIS a user friendly cataloging system that resides in FoxPro and was developed by Gary Gibson, Eastern Cereals and Oil Seed Research Centre, Agriculture Canada. The database application is Microsoft FoxPro.

The purpose of this paper is to publish all new nomenclatural information that has resulted from our cataloging activities. Because we intend to make the database available through the World Wide Web, it is important that all new information be validated through publication before it is made available via the Internet.

Within the Eriococcidae, the most con-

troversial and variable generic concepts center around the status of *Acanthococcus* Signoret, *Anophococcus* Balachowsky, *Eriococcus* Targioni Tozzetti, *Greenisca* Borchsenius, *Gregoporia* Danzig, *Kaweckia* Koteja and Zak-Ogaza, and *Rhizococcus* Signoret. Hoy (1963) in his catalog of the Eriococcidae of the World treated *Acanthococcus* and *Rhizococcus* as junior synonyms of *Eriococcus*, but considered *Greenisca* to be distinct with *Anophococcus* as a junior synonym. Williams (1985) adhered to Hoy's system but also synonymized *Greenisca* and *Kaweckia*.

Other researchers have continued to recognize the various genera as separate valid entities, e.g. Kosztarab and Kozar (1988). The characters used to distinguish these genera usually involve the distribution of the enlarged setae and the presence and distribution of various kinds of dorsal sessile pores. For example, *Rhizococcus* is characterized by having enlarged setae that are restricted to the body margin, in contrast to *Acanthococcus* which has the dorsal enlarged setae scattered over the dorsum. If a careful analysis is made of the species that possess

the characteristics of *Rhizococcus*, it soon becomes evident that it includes an artificial aggregation of species, many of which have independently evolved reduced dorsal enlarged setae, probably in response to ecological factors such as inhabiting a concealed habitat. The same situation is apparently true of the distribution of dorsal multilocular and cruciform pores. For the purposes of the ScaleNet project, we generally have followed the concepts of Hoy and Williams except that *Eriococcus* is restricted to the apparently monophyletic group of species that have unusually large tubular ducts on the head and that *Acanthococcus* contains the remainder of the group. This concept is consistent with the conclusions of Miller and Williams (1976).

Many new combinations are required, because most species within this group have previously been placed in the genus *Eriococcus sensu lato* and are here being transferred to *Acanthococcus*.

#### METHODS

Names are listed with the nomenclatural change in bold face type, followed by remarks (if any), the original combination, author, date, and pagination. In order to avoid using excess space, literature cited includes only those publications that have not previously been included in one of the Coccoidea bibliographies (Morrison and Renk 1957, Morrison and Morrison 1965, Russell et al. 1974, Kosztarab and Kosztarab 1988). In this publication, when an author is cited that has written more than one article in a year, the letter following the date is the same as the letter given in the published bibliography.

#### NEW COMBINATIONS

***Acanthococcus abdifus* (Hoy), n. comb.**

*Eriococcus abditus* Hoy, 1962: 32, 34.

***Acanthococcus acericola* (Tang & Hao), n. comb.**

*Eriococcus acericola* Tang & Hao, 1995: 454.

***Acanthococcus aceris kurdicus* (Bodenheimer), n. comb.**

*Eriococcus aceris kurdica* Bodenheimer, 1943: 21–22.

***Acanthococcus acutispinatus* (Hoy), n. comb.**

*Eriococcus acutispinatus* Hoy, 1962: 33, 36.

***Acanthococcus agonis* (Fuller), n. comb.**

*Eriococcus agonis* Fuller, 1897a: 1345.

***Acanthococcus albatus* (Hoy), n. comb.**

*Eriococcus albatus* Hoy, 1962: 33, 38.

***Acanthococcus amomidis* (Gomez-Menor), n. comb.**

*Eriococcus amomidis* Gomez-Menor, 1935: 2152–2153.

***Acanthococcus angulatus* (Froggatt), n. comb.**

*Eriococcus angulatus* Froggatt, 1916: 426.

***Acanthococcus apiomorphae* (Fuller), n. comb.**

*Eriococcus apiomorphae* Fuller, 1897a: 1345.

***Acanthococcus araucariae minor* (Maskell), n. comb.**

*Eriococcus araucariae minor* Maskell, 1895a: 21.

***Acanthococcus araucariae nudus* (Gomez-Menor), n. comb.**

*Eriococcus araucariae nuda* Gomez-Menor, 1957: 79.

***Acanthococcus arboisi* (Goux), n. comb.**

*Eriococcus arboisi* Goux, 1991: 46–47.

***Acanthococcus arcanus* (Hoy), n. comb.**

*Eriococcus arcanus* Hoy, 1962: 15, 32, 42, 204.

***Acanthococcus argentifagi* (Hoy), n. comb.**

*Eriococcus argentifagi* Hoy, 1962: 31, 44.

***Acanthococcus armeniacus* (Tang & Hao), n. comb.**

*Eriococcus armeniacus* Tang & Hao, 1995: 456–457.

***Acanthococcus artiguesi* (Goux), n. comb.**

*Eriococcus artiguesi* Goux, 1991: 48–49.

***Acanthococcus asteliae* (Hoy), n. comb.**

*Eriococcus asteliae* Hoy, 1962: 32, 46.

- Acanthococcus australis* (Maskell), n. comb.**  
*Eriococcus buxi australis* Maskell, 1895b: 65.
- Acanthococcus bambusae* (Green), n. comb.**  
*Eriococcus bambusae* Green, 1922: 350.
- Acanthococcus beilschmiediae* (Hoy), n. comb.**  
*Eriococcus beilschmiediae* Hoy, 1962: 33, 48.
- Acanthococcus betulaefoliae* (Tang & Hao), n. comb.**  
*Eriococcus betulaefoliae* Tang & Hao, 1995: 460.
- Acanthococcus bezzii* (Leonardi), n. comb.**  
*Eriococcus bezzii* Leonardi, 1907b: 148–151.
- Acanthococcus bicolor* (Froggatt), n. comb.**  
*Rhizococcus bicolor* Froggatt, 1915: 1059.
- Acanthococcus boguschi* (McDaniel), n. comb.**  
*Eriococcus boguschi* McDaniel, 1964: 101.
- Acanthococcus brachypodii* (Borchsenius & Danzig), n. comb.**  
*Greenisca brachypodii* Borchsenius & Danzig, 1966: 43.
- Acanthococcus brasiliensis* (Cockerell), n. comb.**  
*Eriococcus brasiliensis* Cockerell, 1900: 363–364.
- Acanthococcus brevenniae* (Goux), n. comb.**  
*Eriococcus brevenniae* Goux, 1993: 65–69.
- Acanthococcus brittini* (Hoy), n. comb.**  
*Eriococcus brittini* Hoy, 1962: 50.
- Acanthococcus cactearum* (Leonardi), n. comb.**  
*Eriococcus cactearum* Leonardi, 1918: 206–208, 215.
- Acanthococcus campbelli* (Hoy), n. comb.**  
*Eriococcus campbelli* Hoy, 1959: 12.
- Acanthococcus campinensis* (Hempel), n. comb.**  
*Eriococcus campinensis* Hempel, 1937: 5–6.
- Acanthococcus cantium* (Williams), n. comb.**  
*Eriococcus cantium* Williams, 1985i: 363.
- Acanthococcus castanopus* (Tang & Hao), n. comb.**  
*Eriococcus castanopus* Tang & Hao, 1995: 463.
- Acanthococcus casuarinae* (Maskell), n. comb.**  
*Rhizococcus casuarinae* Maskell, 1893: 230.
- Acanthococcus caudatus* (Tang & Hao), n. comb.**  
*Eriococcus caudatus* Tang & Hao, 1995: 463–464.
- Acanthococcus cavellii* (Maskell), n. comb.**  
*Gossyparia cavellii* Maskell, 1890: 147.
- Acanthococcus celmisiae* (Maskell), n. comb.**  
*Rhizococcus celmisiae* Maskell, 1884: 135.
- Acanthococcus chaoticus* (Goux), n. comb.**  
*Eriococcus chaoticus* Goux, 1991: 49–50.
- Acanthococcus chathamensis* (Hoy), n. comb.**  
*Eriococcus chathamensis* Hoy, 1962: 79.
- Acanthococcus chilensis* (Miller & González), n. comb.**  
*Eriococcus chilensis* Miller & González, 1975: 140–142.
- Acanthococcus coffeae* (Hempel), n. comb.**  
*Eriococcus coffeae* Hempel, 1919: 453–457.
- Acanthococcus confluens* (Maskell), n. comb.**  
*Gossyparia confluens* Maskell, 1893b: 227.
- Acanthococcus confusus* (Maskell), n. comb.**  
*Eriococcus confusus* Maskell, 1892: 26.
- Acanthococcus consperus* (Maskell), n. comb.**

- Eriococcus consperus* Maskell, 1893b: 229–330.
- Acanthococcus constrictus* (Froggatt), n. comb.**  
*Eriococcus constrictus* Froggatt, 1933: 365–367.
- Acanthococcus coprosmae* (Hoy), n. comb.**  
*Eriococcus coprosmae* Hoy, 1962: 32, 60–61.
- Acanthococcus coriaceus* (Maskell), n. comb.**  
*Eriococcus coriaceus* Maskell, 1893b: 229.
- Acanthococcus corniculatus* (Ferris), n. comb.**  
*Eriococcus corniculatus* Ferris, 1950: 7.
- Acanthococcus costaricensis* (Cockerell & Robinson), n. comb.**  
*Eriococcus costaricensis* Cockerell & Robinson, 1915: 105.
- Acanthococcus crenilobatus* (Hoy), n. comb.**  
*Eriococcus crenilobatus* Hoy, 1962: 32, 64.
- Acanthococcus crispus* (Fonscolombe), n. comb.**  
*Coccus crispus* Fonscolombe, 1834: 204.
- Acanthococcus crofti* (Froggatt), n. comb.**  
*Eriococcus crofti* Froggatt, 1916: 430.
- Acanthococcus cultellus* (Hoy), n. comb.**  
*Eriococcus cultellus* Hoy, 1959: 14, 23.
- Acanthococcus curassavicus* (Reyne), n. comb.**  
*Eriococcus curassavicus* Reyne, 1964: 101–114.
- Acanthococcus dacrydii* (Hoy), n. comb.**  
*Eriococcus dacrydii* Hoy, 1962: 32, 66.
- Acanthococcus danthoniae* (Maskell), n. comb.**  
*Eriococcus danthoniae* Maskell, 1891: 21, 22.
- Acanthococcus detectus* (Hoy), n. comb.**  
*Eriococcus detectus* Hoy, 1962: 85.
- Acanthococcus diverspinus* (Leonardi), n. comb.**  
*Eriococcus diverspinus* Leonardi, 1911: 249–251.
- Acanthococcus elaeocarpi* (Hoy), n. comb.**  
*Eriococcus elaeocarpi* Hoy, 1962: 32, 72.
- Acanthococcus elegans* (Fuller), n. comb.**  
*Eriococcus elegans* Fuller, 1897b: 1345.
- Acanthococcus elytranthae* (Hoy), n. comb.**  
*Eriococcus elytranthae* Hoy, 1962: 32, 74, 204.
- Acanthococcus emirnenensis* (Mamet), n. comb.**  
*Eriococcus emirnenensis* Mamet, 1954: 25–27.
- Acanthococcus ericae* (Signoret), n. comb.**  
*Eriococcus ericae* Signoret, 1875b: 31.
- Acanthococcus etbaicus* (De Lotto), n. comb.**  
*Eriococcus etbaicus* De Lotto, 1954a: 215–216.
- Acanthococcus eucalypti* (Maskell), n. comb.**  
*Eriococcus eucalypti* Maskell, 1892: 27, 28.
- Acanthococcus eurythrix* (Miller & González), n. comb.**  
*Eriococcus eurythrix* Miller & González, 1975: 142–144.
- Acanthococcus evelinae* (Kozar), n. comb.**  
*Rhizococcus evelinae* Kozar, 1983: 144–146.
- Acanthococcus fagicorticis* (Maskell), n. comb.**  
*Eriococcus fagicorticis* Maskell, 1892: 27.
- Acanthococcus festucarum* (Lindinger), n. comb.**  
Remarks: *Eriococcus festucarum* was proposed by Lindinger (Lindinger 1932f) as a replacement name for *E. festucae* Kuwana and Fukaya (in Kuwana 1914) which is a junior secondary homonym of *E. festucae* Targioni Tozzetti (1869). *Eriococcus festucae* Kuwana, 1914: 2–3.
- Acanthococcus formicicola* (Newstead), n. comb.**  
*Eriococcus formicicola* Newstead, 1897a: 102.
- Acanthococcus fossilis* (Froggatt), n. comb.**

- Eriococcus fossilis* Froggatt, 1933: 367.
- Acanthococcus fossor* (Maskell), n. comb.**  
*Rhizococcus fossor* Maskell, 1884: 136–137.
- Acanthococcus franceschinii* (Balachowsky), n. comb.**  
*Eriococcus franceschinii* Balachowsky, 1934b: 98–101.
- Acanthococcus fulgitectus* (Hoy), n. comb.**  
*Eriococcus fulgitectus* Hoy, 1962: 32, 80.
- Acanthococcus gassinus* (Goux), n. comb.**  
*Eriococcus gassinus* Goux, 1992: 41–46.
- Acanthococcus gaultheriae* (Hoy), n. comb.**  
*Eriococcus gaultheriae* Hoy, 1962: 31, 82.
- Acanthococcus gibbus* (Hoy), n. comb.**  
*Eriococcus gibbus* Hoy, 1959: 14.
- Acanthococcus glyceriae* (Green), n. comb.**  
*Eriococcus glyceriae* Green, 1921: 146–148.
- Acanthococcus gouxi* (Balachowsky), n. comb.**  
*Anophococcus gouxi* Balachowsky, 1954a: 61–64.
- Acanthococcus graminicola* (Borchsenius), n. comb.**  
*Rhizococcus graminicola* Borchsenius, 1949: 353, 359, 360.
- Acanthococcus grandis* (Maskell), n. comb.**  
*Rhizococcus grandis* Maskell, 1892: 29–30.
- Acanthococcus grandis spinosior* (Maskell), n. comb.**  
*Rhizococcus grandis spinosior* Maskell, 1893b: 230.
- Acanthococcus guesinus* (Goux), n. comb.**  
*Eriococcus guesinus* Goux, 1992: 41–46.
- Acanthococcus gurneyi* (Fuller), n. comb.**  
*Eriococcus gurneyi* Fuller, 1899: 441.
- Acanthococcus hakeae* (Fuller), n. comb.**  
*Eriococcus hakeae* Fuller, 1897b: 1345.
- Acanthococcus hebes* (Hoy), n. comb.**  
*Eriococcus hebes* Hoy, 1962: 33, 84.
- Acanthococcus hispidus* (Hoy), n. comb.**  
*Eriococcus hispidus* Hoy, 1962: 30, 86.
- Acanthococcus humatus* (Hoy), n. comb.**  
*Eriococcus humatus* Hoy, 1962: 32, 88.
- Acanthococcus iljiniae* (Danzig), n. comb.**  
*Rhizococcus iljiniae* Danzig, 1972c: 339.
- Acanthococcus imperfectus* (Fuller), n. comb.**  
*Eriococcus imperfectus* Fuller, 1897b: 1345.
- Acanthococcus inermis* (Green), n. comb.**  
*Eriococcus inermis* Green, 1915a: 176.
- Acanthococcus ironsidei* (Williams), n. comb.**  
*Eriococcus ironsidei* Williams, 1973a: 83.
- Acanthococcus irregularis* (Froggatt), n. comb.**  
*Eriococcus irregularis* Froggatt, 1921a: 83.
- Acanthococcus istriensis* (Kozar), n. comb.**  
*Gregoporia istriensis* Kozar, 1983b: 142–144.
- Acanthococcus jorgenseni* (Morrison), n. comb.**  
*Eriococcus jorgenseni* Morrison, 1919: 69, 73–74.
- Acanthococcus kamahi* (Hoy), n. comb.**  
*Eriococcus kamahi* Hoy, 1958: 196.
- Acanthococcus kijabensis* (James), n. comb.**  
*Eriococcus kijabensis* James, 1934a: 270–272.
- Acanthococcus kondarensis* (Borchsenius), n. comb.**  
*Rhizococcus kondarensis* Borchsenius, 1949: 57, 58, 353–354.
- Acanthococcus kowhai* (Hoy), n. comb.**  
*Eriococcus kowhai* Hoy, 1962: 32, 92.
- Acanthococcus laeticoris* (Tereznikova), n. comb.**  
*Greenisca laeticoris* Tereznikova, 1965: 975.
- Acanthococcus lanatus* (Hempel), n. comb.**  
*Eriococcus lanatus* Hempel, 1932: 317–318.
- Acanthococcus latilobatus* (Hoy), n. comb.**

- Eriococcus latilobatus* Hoy, 1962: 31, 94.
- Acanthococcus lecanioides* (Green), n. comb.**  
*Rhizococcus lecanioides* Green, 1915d: 47.
- Acanthococcus leguminicola* (Morrison), n. comb.**  
*Eriococcus leguminicola* Morrison, 1919: 71-73.
- Acanthococcus leptospermi* (Maskell), n. comb.**  
*Eriococcus leptospermi* Maskell, 1891: 22-23.
- Acanthococcus lidgetti* (Cockerell), n. comb.**  
*Rhizococcus lidgetti* Cockerell, 1899k: 88-89.
- Acanthococcus mancus* (Maskell), n. comb.**  
*Rhizococcus casuarinae mancus* Maskell, 1897: 316.
- Acanthococcus maskelli* (Hoy), n. comb.**  
*Eriococcus maskelli* Hoy, 1962: 31, 98.
- Acanthococcus matai* (Hoy), n. comb.**  
*Eriococcus matai* Hoy, 1962: 32, 100.
- Acanthococcus mendozae* (Morrison), n. comb.**  
*Eriococcus mendozae* Morrison, 1919: 68-70.
- Acanthococcus meridianus* (Hoy), n. comb.**  
*Eriococcus meridianus* Hoy, 1962: 32, 102.
- Acanthococcus milleri* (Hoy), n. comb.**  
*Eriococcus milleri* Hoy, 1962: 18-19.
- Acanthococcus mimus* (Hoy), n. comb.**  
*Eriococcus mimus* Hoy, 1962: 33, 104.
- Acanthococcus montanus* (Hoy), n. comb.**  
*Eriococcus montanus* Hoy, 1962: 33, 106.
- Acanthococcus montifagi* (Hoy), n. comb.**  
*Eriococcus montifagi* Hoy, 1962: 31, 108.
- Acanthococcus multispinatus* (Tang & Hao), n. comb.**  
*Rhizococcus multispinatus* Tang & Hao, 1995: 598-599.
- Acanthococcus multispinosus* (Kuhlgatz), n. comb.**  
*Rhizococcus multispinosus* Kuhlgatz, 1898: 185-186.
- Acanthococcus myrsinae* (Hoy), n. comb.**  
*Eriococcus myrsinae* Hoy, 1962: 32, 112.
- Acanthococcus navarinoensis* (Hoy), n. comb.**  
*Eriococcus navarinoensis* Hoy, 1962a: 510.
- Acanthococcus nelsonensis* (Hoy), n. comb.**  
*Eriococcus nelsonensis* Hoy, 1962: 31, 114.
- Acanthococcus nematosphaerus* (Hu, Xie & Yan), n. comb.**  
*Eriococcus nematosphaerus* Hu, Xie & Yan, 1981: 75.
- Acanthococcus neomyrti* (Hoy), n. comb.**  
*Eriococcus neomyrti* Hoy, 1962: 116.
- Acanthococcus ningxianensis* (Tang & Hao), n. comb.**  
*Eriococcus ningxianensis* Tang & Hao, 1995: 481-482.
- Acanthococcus nitidulus* (Hoy), n. comb.**  
*Eriococcus nitidulus* Hoy, 1962: 31, 118.
- Acanthococcus nothofagi* (Hoy), n. comb.**  
*Eriococcus nothofagi* Hoy, 1962: 31, 120.
- Acanthococcus nuerae* (Green), n. comb.**  
*Eriococcus nuerae* Green, 1922: 347, 349.
- Acanthococcus oblongus* (Borchsenius), n. comb.**  
*Rhizococcus oblongus* Borchsenius, 1949: 54, 56, 353, 358.
- Acanthococcus oligacanthus* (Danzig), n. comb.**  
*Rhizococcus oligacanthus* Danzig, 1972c: 341.
- Acanthococcus orariensis* (Hoy), n. comb.**  
*Eriococcus orariensis* Hoy, 1954: 465-474.
- Acanthococcus orientalis* (Borchsenius), n. comb.**  
*Greenisca orientalis* Borchsenius, 1956b: 676, 677, 679.
- Acanthococcus pallidus* (Maskell), n. comb.**  
*Eriococcus pallidus* Maskell, 1885a: 29, 30.

- Acanthococcus papillosus* (Morrison), n. comb.**  
*Eriococcus papillosus* Morrison, 1924a: 145–147.
- Acanthococcus parabilis* (Hoy), n. comb.**  
*Eriococcus parabilis* Hoy, 1962: 32, 126–127, 200.
- Acanthococcus parvisetus* (Lindinger), n. comb.**  
*Eriococcus parvispinus* Goux, 1948: 5–6.
- Acanthococcus parvulus* (Hoy), n. comb.**  
*Eriococcus parvulus* Hoy, 1962: 31, 128.
- Acanthococcus perplexus* (Hempel), n. comb.**  
*Eriococcus perplexus* Hempel, 1900a: 381–382.
- Acanthococcus philippinensis* (Morrison), n. comb.**  
*Rhizococcus philippinensis* Morrison, 1920: 161–164.
- Acanthococcus phyllocladi* (Maskell), n. comb.**  
*Eriococcus phyllocladi* Maskell, 1892: 25.
- Acanthococcus picta* (Froggatt), n. comb.**  
*Eriococcus picta* Froggatt, 1916: 573.
- Acanthococcus pimeliae* (Hoy), n. comb.**  
*Eriococcus pimeliae* Hoy, 1963: 31, 132–133.
- Acanthococcus piptandeniae* (Hempel), n. comb.**  
*Eriococcus piptandeniae* Hempel, 1937: 6–8.
- Acanthococcus placidus* (Green), n. comb.**  
*Eriococcus placidus* Green, 1921: 148–149.
- Acanthococcus podocarp* (Hoy), n. comb.**  
*Eriococcus podocarp* Hoy, 1962: 31, 134, 198, 206.
- Acanthococcus pohutukawa* (Hoy), n. comb.**  
*Eriococcus pohutukawa* Hoy, 1958: 179, 193, 199.
- Acanthococcus popayanensis* (Balachowsky), n. comb.**  
*Eriococcus popayanensis* Balachowsky, 1959a: 365–366.
- Acanthococcus pseudinsignis* (Green), n. comb.**  
*Eriococcus pseudinsignis* Green, 1921: 149–150.
- Acanthococcus pustulatus* (Maskell), n. comb.**  
*Rhizococcus pustulatus* Maskell, 1893b: 231.
- Acanthococcus puymorensis* (Goux), n. comb.**  
*Eriococcus puymorensis* Goux, 1992: 41–46.
- Acanthococcus raithbyi* (Maskell), n. comb.**  
*Eriococcus raithbyi* Maskell, 1890: 145–146.
- Acanthococcus rata* (Hoy), n. comb.**  
*Eriococcus rata* Hoy, 1958: 191–193.
- Acanthococcus reynei* (Schmutterer), n. comb.**  
*Eriococcus reynei* Schmutterer, 1952: 378, 413, 414–417.
- Acanthococcus rhadinothrix* (Miller & González), n. comb.**  
*Eriococcus rhadinothrix* Miller & González, 1975: 146–147.
- Acanthococcus rhodomyrti* (Green), n. comb.**  
*Eriococcus rhodomyrti* Green, 1922: 352.
- Acanthococcus rosaceus* (Balachowsky), n. comb.**  
*Eriococcus rosaceus* Balachowsky, 1932e: 233–234.
- Acanthococcus rosannae* (Tranfaglia & Esposito), n. comb.**  
*Eriococcus rosannae* Tranfaglia & Esposito, 1985: 130–132.
- Acanthococcus rotundus* (Hoy), n. comb.**  
*Eriococcus rotundus* Hoy, 1962: 31, 42.
- Acanthococcus rubrus* (Matesova), n. comb.**  
*Greenisca rubra* Matesova, 1960a: 205, 209–212.
- Acanthococcus rubrifagi* (Hoy), n. comb.**  
*Eriococcus rubrifagi* Hoy, 1962: 31, 144.
- Acanthococcus rugosus* (Froggatt), n. comb.**  
*Eriococcus rugosus* Froggatt, 1933: 367–368.
- Acanthococcus rusapiensis* (Hall), n. comb.**

- Eriococcus rusapiensis* Hall, 1937: 124–125.
- Acanthococcus saboteneus* (Kuwana & Tanaka), n. comb.  
*Eriococcus saboteneus* Kuwana & Tanaka, 1922: 215–221.
- Acanthococcus sachalinensis* (Siraiwa), n. comb.  
*Eriococcus sachalinensis* Siraiwa, 1939: 65–66.
- Acanthococcus salsolae* (Borchsenius), n. comb.  
*Rhizococcus salsolae* Borchsenius, 1949: 53, 56, 353, 363.
- Acanthococcus sanguinairensis* (Goux), n. comb.  
*Eriococcus sanguinairensis* Goux, 1993: 68–69.
- Acanthococcus serratilobis prominens* (Green), n. comb.  
*Eriococcus serratilobis prominens* Green, 1915d: 46.
- Acanthococcus serratilobis serratilobis* (Green), n. comb.  
*Eriococcus serratilobis* Green, 1915d: 45.
- Acanthococcus setulosus* (Hoy), n. comb.  
*Eriococcus setulosus* Hoy, 1962: 115.
- Acanthococcus simplex* (Maskell), n. comb.  
*Eriococcus simplex* Maskell, 1897: 317.
- Acanthococcus socialis* (Goux), n. comb.  
*Eriococcus socialis* Goux, 1931a: 63, 64–67.
- Acanthococcus sophorae* (Green), n. comb.  
*Eriococcus sophorae* Green, 1929: 375.
- Acanthococcus sordidus* (Green), n. comb.  
*Eriococcus sordidus* Green, 1904: 68.
- Acanthococcus spiniger* (Maskell), n. comb.  
*Eriococcus spiniger* Maskell, 1896b: 398.
- Acanthococcus stenoclini* (Mamet), n. comb.  
*Eriococcus stenoclini* Mamet, 1950: 18, 21, 26–28.
- Acanthococcus sutepensis* (Takahashi), n. comb.  
*Eriococcus sutepensis* Takahashi, 1942b: 8–10.
- Acanthococcus targassonensis* (Goux), n. comb.  
*Eriococcus targassonensis* Goux, 1993: 67–69.
- Acanthococcus tavnignani* (Goux), n. comb.  
*Eriococcus tavnignani* Goux, 1991: 46.
- Acanthococcus tenuis* (Green), n. comb.  
*Eriococcus tenuis* Green, 1922: 351, 352.
- Acanthococcus tepperi* (Maskell), n. comb.  
*Eriococcus tepperi* Maskell, 1892: 29.
- Acanthococcus tesselatus* (Froggatt), n. comb.  
*Eriococcus tesselatus* Froggatt, 1916: 576.
- Acanthococcus tholothrix* (Miller & González), n. comb.  
*Eriococcus tholothrix* Miller & González, 1975: 146–149.
- Acanthococcus thymi* (Schrank), n. comb.  
*Coccus thymi* Schrank, 1801: 146.
- Acanthococcus timidus* (Hulden), n. comb.  
*Eriococcus timidus* Hulden, 1985: 59–61.
- Acanthococcus tricarinatus* (Fuller), n. comb.  
*Eriococcus tricarinatus* Fuller, 1897b: 1345.
- Acanthococcus tripartitus* (Fuller), n. comb.  
*Rhizococcus tripartitus* Fuller, 1897b: 1345.
- Acanthococcus trispinatus* (Wang), n. comb.  
*Eriococcus trispinatus* Wang, 1974: 329–333.
- Acanthococcus tucurincae* (Laing), n. comb.  
*Eriococcus tucurincae* Laing, 1929a: 467–469.
- Acanthococcus valenzuelae* (Balachowsky), n. comb.  
*Eriococcus valenzuelae* Balachowsky, 1959a: 363–465.



***Acanthococcus variabilis* (Goux), n. comb.**

*Eriococcus variabilis* Goux, 1940: 62–65.

***Acanthococcus veyrensis* (Goux), n. comb.**

*Eriococcus veyrensis* Goux, 1991: 47–48.

***Acanthococcus villosus* (Froggatt), n. comb.**

*Eriococcus villosus* Froggatt, 1916: 577.

***Acanthococcus zygophylli* (Archangel-skaya), n. comb.**

*Eriococcus zygophylli* Archangelskaya, 1931: 72–73.

## REPLACEMENT NAMES

***Acanthococcus danzigae* Miller and Gimpel, n. name.**

Remarks: *Acanthococcus danzigae* is a replacement name for *A. confusus* Danzig (1962a) which is a junior secondary homonym of *A. confusus* Maskell (1892).

*Rhizococcus confusus* Danzig, 1962a: 854.

***Acanthococcus dziedzickae* Miller and Gimpel, n. name**

Remarks: *Acanthococcus dziedzickae* is a replacement name for *Acanthococcus palustris* (Dziedzicka & Koteja) (1971) which is a junior secondary homonym of *A. palustris* Dodds (1923).

*Rhizococcus palustris* Dziedzicka & Koteja, 1971: 573.

***Acanthococcus matesovae* Miller and Gimpel, n. name**

Remarks: *Acanthococcus matesovae* is a replacement name for *A. multispinosus* Matesova (1976) which is a junior secondary homonym of *A. multispinosus* Kuhlitz (1898).

*Acanthococcus multispinosus* Matesova, 1976: 24–26.

***Acanthococcus wangi* Miller and Gimpel, n. name**

Remarks: *Acanthococcus wangi* is a replacement name for *Eriococcus rugosus* Wang which is a junior

primary homonym of *Eriococcus rugosus* Froggatt (1933).

*Eriococcus rugosus* Wang, 1982c: 441–442.

## NEW SYNONYMY

***Gregoporia* Danzig, new synonymy**

Remarks: This genus is considered to be a junior subjective synonym of *Acanthococcus* Signoret, 1875b. The diagnostic characters of *Gregoporia* of 8-segmented antennae and dorsal quinquelocular pores are within the range of variation expected within *Acanthococcus*.

*Gregoporia* Danzig 1979: 46.

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## LITERATURE CITED

- Goux, L. 1991. Remarques sur l'importance de certains caractères morphologiques fondamentaux des *Eriococcus* avec description de cinq espèces nouvelles (51ème note sur les coccides de France). Bulletin de la Société Linnéenne de Provence 42: 45–55.
- . 1992. Description de trois cochenilles nouvelles appartenant au genre *Eriococcus* (52ème note sur les coccides de France). Bulletin de la Société Linnéenne de Provence 43: 41–460.

- . 1993. Description de trois espèces nouvelles d'*Eriococcus* appartenant à la fauna française (53e note sur les coccides de France). *Bulletin de la Société Linnéenne de Provence* 44: 65–69.
- Hoy, J. M. 1963. A catalogue of the Eriococcidae of the World. New Zealand Department of Scientific and Industrial Research, Bulletin 150, 260 pp.
- Kosztarab, M. and M. P. Kosztarab. 1988. A selected bibliography of the Coccoidea. Third supplement (1970–1988). Virginia Polytechnic Institute and State University, Agricultural Experiment Station Bulletin No. 88–1, 252 pp.
- Kosztarab, M. and F. Kozar. 1988. Scale insects of Central Europe. Akadémiai Kiadó, Budapest. 456 pp.
- Miller, D. R. and D. J. Williams. 1976. Proposed conservation of the family-group name Eriococcidae Cockerell, 1899 and the designation of a type-species of *Eriococcus* Targioni-Tozzetti, 1868 under the plenary powers Z.N. 2140. *Bulletin on Zoological Nomenclature* 33: 118–123.
- Morrison, H. and E. R. Morrison. 1965. A selected bibliography of the Coccoidea. First supplement. United States Department of Agriculture, Miscellaneous Publication No. 987, 44 pp.
- Morrison, H. and Renk. 1957. A selected bibliography of the Coccoidea. United States Department of Agriculture, Miscellaneous Publication No. 734, 222 pp.
- Russell, L. M., M. Kosztarab, and M. P. Kosztarab. 1974. A selected bibliography of the Coccoidea. Second supplement. United States Department of Agriculture, Miscellaneous Publication No. 1281, 122 pp.
- Tang, F. and J. Hao. 1995. The Margarodidae and others of China. Chinese Agricultural Science and Technology Press, Beijing. 738 pp.
- Williams, D. J. 1985. The British and some other European Eriococcidae. *Bulletin of the British Museum (Natural History), Entomology Series* 51: 347–393.